

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P145136

Luminaire Tested: **LDRL-SL3-F02-E-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145136
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33702)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRL-SL3-F02-E-7050
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (14) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5029.4 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

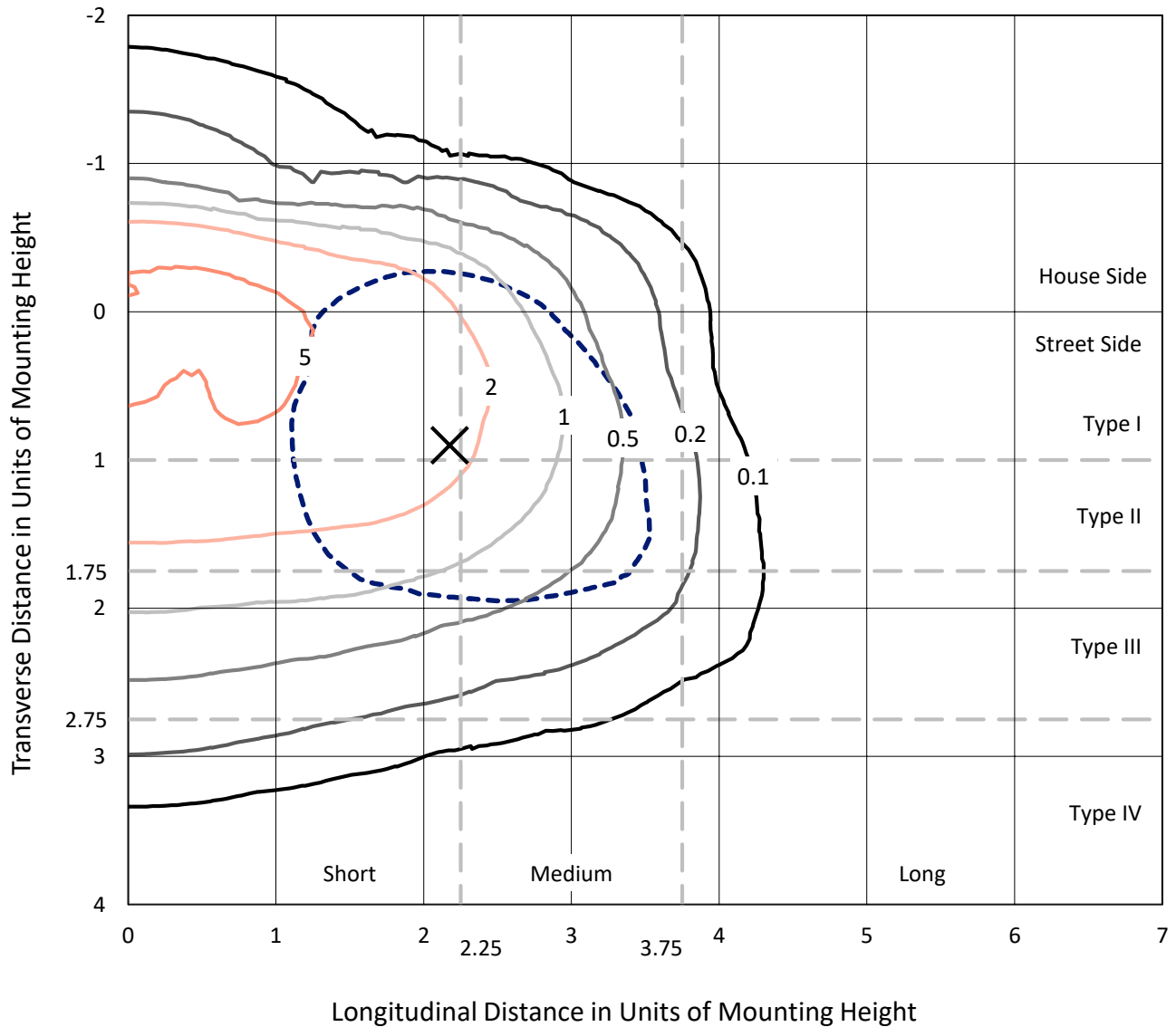


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Iso-Footcandle Lines of Horizontal Illumination

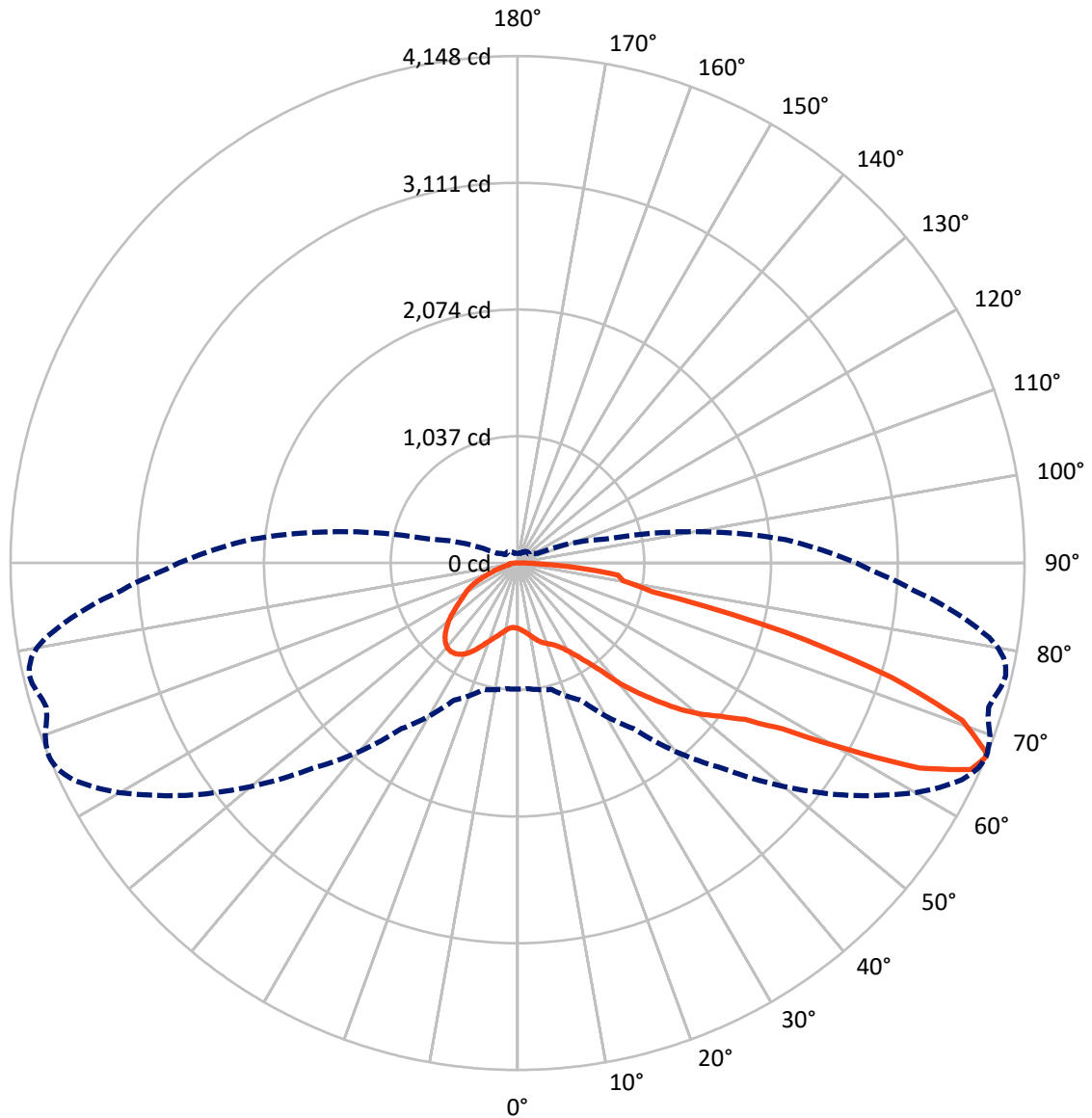
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1190.9	0.0	1190.9
	% Fixture	23.7	0.0	23.7
Street Side	Lumens	3838.5	0.0	3838.5
	% Fixture	76.3	0.0	76.3
Total	Lumens	5029.4	0.0	5029.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	1.1
10°-20°	182.9	3.6
20°-30°	325.5	6.5
30°-40°	474.2	9.4
40°-50°	730.6	14.5
50°-60°	1070.0	21.3
60°-70°	1420.8	28.2
70°-80°	669.7	13.3
80°-90°	102.4	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5029.4	100.0
0°-180°	5029.4	100.0



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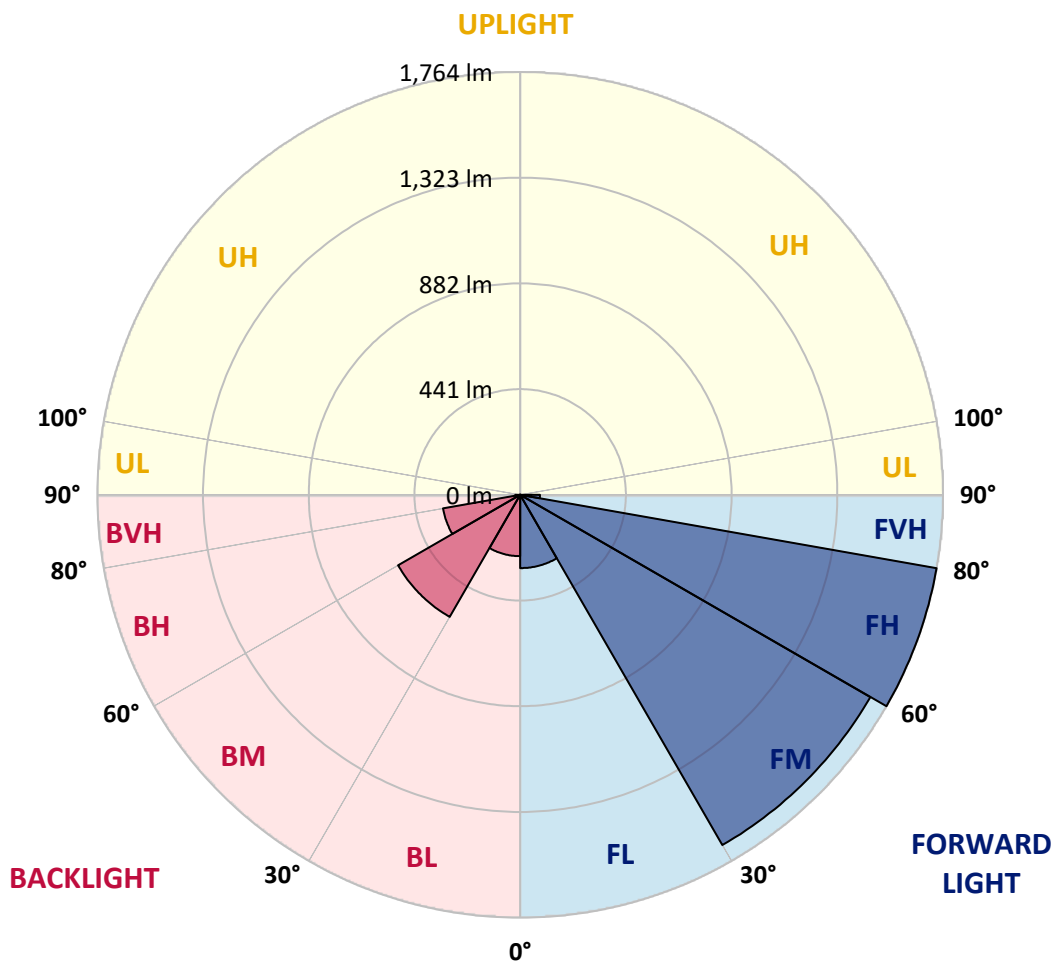
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	305.8	6.1			
FM	(30°-60°)	1686.6	33.5			
FH	(60°-80°)	1763.6	35.1			G1/1800
FVH	(80°-90°)	82.5	1.6			G1/100
BL	(0°-30°)	256.0	5.1	B1/500		
BM	(30°-60°)	588.1	11.7	B1/1000		
BH	(60°-80°)	327.0	6.5	B1/500		G1/500
BVH	(80°-90°)	19.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0
2.5°	561.8	559.4	559.7	560.8	557.4	555.7	552.0	549.6	549.2	548.9	547.5
5°	594.6	592.3	593.3	590.6	584.1	579.7	571.9	567.9	567.2	566.5	564.8
7.5°	628.9	625.8	622.4	619.4	612.3	605.2	595.0	588.9	588.2	587.2	586.2
10°	669.5	665.1	662.4	652.9	640.7	630.9	620.7	614.3	614.0	612.9	610.9
12.5°	715.3	710.5	705.4	692.9	673.9	659.4	647.5	643.8	640.7	641.1	639.0
15°	760.7	755.6	748.8	732.9	707.8	686.1	670.9	665.5	665.8	664.1	665.1
17.5°	799.0	794.6	784.7	764.4	735.3	705.4	686.1	683.8	684.4	684.1	685.1
20°	824.0	821.3	806.4	782.0	749.2	716.3	696.6	696.6	697.0	698.3	700.7
22.5°	839.3	835.2	815.6	781.3	748.8	721.4	706.1	709.5	711.5	712.6	716.3
25°	847.8	842.7	815.9	770.5	737.3	725.1	720.4	728.8	732.2	733.9	740.0
27.5°	847.8	841.7	811.5	756.9	724.1	736.3	747.5	762.0	764.4	769.5	776.6
30°	838.3	833.5	804.7	746.8	720.7	757.3	791.2	807.8	813.5	819.3	828.4
32.5°	828.1	824.0	801.3	752.2	739.7	801.3	857.9	880.6	884.0	888.8	898.2
35°	827.4	826.1	816.2	786.8	796.9	882.0	958.6	974.1	983.6	986.0	990.1
37.5°	834.5	837.2	845.7	842.7	879.3	1001.9	1090.4	1121.5	1129.0	1124.9	1128.6
40°	851.1	857.9	889.4	928.4	1005.0	1146.9	1269.9	1305.9	1314.0	1311.6	1310.6
42.5°	903.7	912.8	959.2	1042.6	1135.8	1297.0	1436.6	1475.3	1478.0	1479.3	1470.5
45°	986.0	991.1	1052.7	1159.1	1277.4	1458.7	1603.0	1646.0	1644.3	1637.6	1631.1
47.5°	1079.5	1090.0	1163.9	1292.6	1423.8	1608.1	1771.4	1813.4	1817.1	1811.0	1799.2
50°	1164.6	1172.7	1256.0	1408.9	1552.9	1732.4	1913.4	1955.7	1955.1	1958.4	1961.8
52.5°	1231.6	1239.1	1318.4	1486.4	1647.7	1836.8	2020.4	2072.6	2080.8	2086.2	2093.0
55°	1266.2	1274.0	1347.2	1518.6	1705.3	1938.8	2144.1	2219.0	2232.9	2245.1	2256.3
57.5°	1266.9	1277.1	1344.1	1516.3	1735.1	2029.9	2307.8	2442.3	2461.9	2493.1	2531.4
60°	1246.2	1260.4	1320.8	1494.2	1769.4	2145.5	2577.5	2835.0	2873.6	2928.2	2977.3
62.5°	1192.3	1206.6	1260.4	1438.3	1809.4	2293.5	2967.1	3344.6	3426.9	3487.2	3584.5
65°	1107.3	1120.9	1166.3	1345.8	1777.5	2410.4	3257.5	3710.2	3794.2	3869.8	3984.0
67°	1031.4	1032.8	1071.0	1239.8	1653.5	2374.2	3315.8	3759.0	3836.6	3913.2	4045.6
67.5°	1004.6	1012.1	1041.9	1204.5	1606.4	2347.4	3292.8	3732.6	3807.8	3889.4	4024.6
70°	812.2	814.2	843.0	960.9	1274.7	1946.2	2957.6	3395.4	3446.9	3566.5	3699.3
72.5°	495.4	492.0	501.1	588.5	838.9	1347.9	2368.1	2795.3	2865.8	2967.8	3057.6
75°	272.8	289.0	300.2	360.9	471.3	792.5	1612.5	2022.5	2125.8	2186.5	2204.4
77.5°	166.7	165.3	170.4	232.8	386.6	542.1	890.8	1186.6	1244.2	1261.5	1194.7
80°	79.3	82.3	81.3	95.9	187.4	457.4	622.8	762.0	791.2	807.8	829.5
82.5°	43.4	45.1	51.2	57.3	73.9	196.9	537.4	702.7	722.4	750.8	782.7
85°	27.1	28.5	39.3	41.3	45.4	60.7	224.0	410.7	427.3	483.8	501.8
87.5°	11.2	12.2	21.3	19.3	23.0	21.3	67.8	104.4	110.8	117.9	130.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	65°	66°	67°	67.5°	68°	69°	70°	71°	72°	73°	74°
0°	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0
2.5°	547.9	547.5	546.2	545.9	546.5	546.5	545.9	544.8	544.5	544.2	543.5
5°	564.2	563.5	562.5	561.8	561.4	561.4	560.4	559.4	558.4	557.0	556.7
7.5°	583.5	583.5	583.1	582.1	581.1	579.7	578.7	577.7	576.7	576.0	575.0
10°	608.9	610.2	607.9	607.2	606.8	604.8	604.5	603.5	602.8	601.1	601.1
12.5°	639.0	637.7	637.3	636.0	636.0	635.0	634.6	634.3	633.6	632.3	631.9
15°	664.1	664.1	663.8	663.1	663.8	663.1	662.1	662.8	661.7	662.1	661.1
17.5°	684.4	685.8	685.5	685.8	685.5	685.5	686.1	686.1	686.8	685.5	685.8
20°	701.4	703.4	704.4	703.8	704.4	704.8	706.5	707.1	708.2	708.8	708.8
22.5°	719.0	721.7	723.7	723.7	725.1	726.5	729.5	730.2	732.6	732.2	733.9
25°	743.7	748.1	749.5	751.5	753.2	755.6	759.3	761.0	762.0	764.4	767.1
27.5°	781.7	787.1	788.1	790.5	794.9	796.3	800.3	802.0	805.7	810.8	811.8
30°	833.5	840.3	840.6	843.3	848.4	850.1	853.5	857.9	861.0	866.1	866.4
32.5°	904.0	910.8	909.8	914.8	914.5	919.6	918.6	925.3	928.1	930.8	938.2
35°	997.9	997.2	1002.3	1004.0	1002.9	1007.0	1006.3	1009.4	1012.1	1012.1	1020.2
37.5°	1133.0	1132.0	1131.4	1124.2	1122.5	1122.9	1121.5	1124.2	1119.8	1119.8	1128.6
40°	1314.3	1308.2	1303.5	1298.7	1294.0	1287.6	1282.1	1280.8	1273.3	1273.0	1269.6
42.5°	1471.9	1466.1	1462.7	1453.6	1448.8	1447.8	1434.6	1430.9	1428.8	1430.2	1426.8
45°	1637.2	1631.1	1618.3	1614.2	1612.8	1605.7	1603.7	1594.5	1591.8	1596.6	1594.9
47.5°	1807.7	1798.8	1791.7	1787.0	1785.3	1779.2	1770.4	1777.8	1774.1	1771.4	1766.3
50°	1960.8	1951.0	1951.0	1942.5	1943.9	1939.8	1930.7	1932.7	1922.2	1926.2	1923.5
52.5°	2089.2	2089.9	2093.3	2083.8	2085.5	2085.5	2082.5	2072.6	2075.3	2074.0	2080.4
55°	2252.5	2263.7	2257.6	2259.3	2261.4	2270.8	2277.6	2271.9	2262.4	2269.8	2290.5
57.5°	2538.2	2548.3	2554.4	2559.2	2567.0	2571.4	2608.0	2613.1	2602.2	2624.6	2670.7
60°	3034.9	3047.1	3065.4	3089.5	3094.5	3125.4	3144.3	3166.7	3174.8	3194.2	3243.6
62.5°	3632.3	3659.7	3663.1	3693.6	3717.3	3688.5	3696.0	3723.4	3692.2	3734.9	3737.0
65°	4023.3	4063.3	4064.6	4075.8	4084.6	4057.5	4045.3	4033.1	4003.6	4001.9	4031.4
67°	4090.4	4127.0	4142.2	4147.6	4146.3	4132.4	4112.4	4077.1	4048.7	4032.4	4044.6
67.5°	4071.4	4107.3	4128.6	4133.7	4134.1	4120.5	4102.2	4063.9	4037.2	4018.9	4031.7
70°	3759.7	3843.7	3880.3	3861.3	3872.2	3872.2	3871.5	3836.2	3823.0	3805.4	3798.6
72.5°	3126.0	3184.3	3230.7	3206.0	3209.1	3232.1	3226.7	3230.4	3192.5	3188.4	3125.7
75°	2239.3	2258.0	2242.4	2260.0	2165.1	2131.2	2073.6	1989.6	1967.6	1932.7	1828.3
77.5°	1189.6	1168.6	1126.9	1123.6	1084.6	1054.4	1017.2	992.8	931.1	896.9	818.6
80°	840.3	850.5	866.4	875.9	884.7	891.5	877.6	838.6	787.1	729.5	674.9
82.5°	802.7	816.6	826.1	830.8	827.4	816.6	784.7	747.5	678.7	628.9	569.9
85°	506.2	517.4	498.1	494.0	502.5	434.0	396.4	365.9	296.5	275.8	243.6
87.5°	135.9	143.3	143.7	139.3	136.5	120.3	106.4	94.2	77.9	73.2	59.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°
0°	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0
2.5°	543.5	543.1	543.1	542.1	541.5	541.1	540.8	539.8	539.1	539.1	538.7
5°	556.4	555.7	554.7	554.3	553.0	552.3	550.9	550.3	549.2	548.6	548.2
7.5°	574.7	573.0	570.9	571.3	569.2	568.2	567.5	566.2	565.2	564.2	563.8
10°	599.1	598.7	596.7	597.4	593.6	595.3	591.9	592.3	590.2	588.2	587.9
12.5°	630.2	629.9	627.9	625.5	624.8	625.1	623.1	623.4	621.1	620.4	619.7
15°	660.0	659.4	658.3	656.7	655.6	655.3	654.6	653.9	651.9	651.9	649.5
17.5°	685.8	686.1	684.8	683.4	682.7	681.7	681.4	681.4	679.7	678.0	678.3
20°	708.5	709.2	709.2	708.2	708.5	707.8	707.5	708.2	706.5	705.8	704.8
22.5°	733.9	733.9	734.2	734.9	735.9	736.3	736.3	735.6	734.6	734.2	732.2
25°	769.1	767.8	769.5	770.2	770.2	771.9	771.2	771.5	771.9	770.8	769.8
27.5°	813.5	812.2	815.6	817.9	817.6	818.6	820.6	818.3	819.6	820.6	818.3
30°	868.1	871.5	873.8	875.5	874.9	877.9	878.9	878.6	877.6	879.3	879.3
32.5°	937.5	935.8	941.9	945.7	946.0	945.3	947.0	949.1	947.4	950.1	948.7
35°	1020.2	1021.2	1022.6	1026.7	1028.3	1025.6	1028.3	1030.7	1030.0	1030.4	1031.7
37.5°	1126.9	1128.6	1127.3	1127.6	1126.9	1139.8	1141.9	1143.9	1141.5	1139.5	1145.6
40°	1275.0	1275.0	1274.7	1279.1	1271.6	1279.8	1277.4	1283.2	1289.2	1285.9	1295.0
42.5°	1420.7	1428.8	1429.5	1423.1	1428.5	1437.3	1437.3	1441.0	1446.5	1441.0	1449.9
45°	1587.8	1597.9	1596.2	1607.1	1598.9	1609.1	1610.8	1606.1	1617.9	1619.3	1615.9
47.5°	1770.0	1772.1	1772.4	1776.1	1777.8	1786.0	1785.6	1794.4	1791.7	1778.2	1782.9
50°	1926.2	1931.3	1934.0	1936.4	1944.9	1950.6	1958.4	1959.8	1957.8	1953.7	1950.0
52.5°	2082.5	2094.6	2102.4	2123.4	2136.7	2147.2	2160.0	2164.8	2162.4	2161.4	2146.5
55°	2291.5	2320.6	2365.7	2394.9	2426.7	2445.3	2460.2	2467.7	2462.3	2465.0	2434.2
57.5°	2685.2	2753.7	2793.0	2842.8	2899.0	2922.4	2928.8	2955.3	2926.1	2897.0	2873.6
60°	3270.4	3333.4	3404.9	3456.1	3475.0	3539.8	3509.3	3475.0	3443.9	3383.6	3315.5
62.5°	3798.6	3879.9	3916.5	3964.3	3951.4	3946.0	3925.7	3871.1	3804.4	3714.6	3623.8
65°	4059.2	4104.9	4127.6	4143.2	4128.6	4091.0	4023.9	3943.3	3847.8	3731.5	3612.3
67°	4069.7	4090.7	4098.2	4083.2	4050.7	3992.1	3907.4	3793.2	3675.6	3542.5	3408.3
67.5°	4052.4	4066.3	4070.0	4046.6	4008.0	3944.7	3854.2	3732.2	3607.2	3468.9	3334.1
70°	3816.6	3806.4	3773.6	3741.4	3620.7	3535.7	3378.1	3248.0	3074.5	2947.5	2803.5
72.5°	3100.6	3054.2	3022.4	2880.1	2734.4	2650.0	2480.6	2325.1	2166.8	2045.9	1957.4
75°	1740.6	1706.7	1618.3	1543.0	1422.7	1312.6	1233.7	1134.7	1039.9	983.6	942.3
77.5°	786.4	689.5	622.8	538.4	435.1	349.7	259.5	239.9	204.7	195.8	176.5
80°	613.6	544.2	456.7	360.2	254.1	170.8	125.4	106.4	100.0	95.9	93.9
82.5°	512.0	421.8	355.1	252.1	161.3	108.4	81.7	73.9	69.1	65.7	62.7
85°	218.9	173.1	142.6	102.0	72.5	57.3	50.1	45.7	41.3	37.6	35.2
87.5°	51.2	39.3	35.9	30.5	28.8	28.5	28.1	26.8	25.1	23.0	20.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	86°	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°
0°	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0	535.0
2.5°	538.4	538.1	537.4	536.4	536.4	535.0	530.6	527.6	524.2	522.1	520.1
5°	547.5	547.2	545.5	544.5	543.8	541.1	533.7	527.9	521.8	517.4	514.0
7.5°	562.8	561.8	560.4	559.7	557.7	554.3	543.5	535.4	526.5	519.4	513.7
10°	587.5	585.8	583.8	581.8	582.4	577.0	564.5	552.6	539.8	528.6	520.8
12.5°	617.7	617.7	616.7	615.3	612.9	606.8	589.9	576.0	560.4	546.5	540.8
15°	649.5	647.8	646.1	644.1	643.8	635.6	620.4	604.5	588.2	576.4	569.6
17.5°	675.6	676.3	673.9	673.3	672.6	664.4	648.2	634.0	622.1	609.6	598.7
20°	703.4	702.1	701.4	700.4	700.0	693.2	680.4	671.6	661.1	642.1	613.6
22.5°	733.2	731.5	732.2	730.2	729.8	725.1	715.6	712.9	697.3	657.3	607.9
25°	771.9	768.8	769.8	769.8	770.2	765.8	764.7	760.0	720.7	653.6	584.8
27.5°	817.9	819.3	819.3	819.0	816.6	817.9	822.7	806.4	728.8	634.0	550.3
30°	877.9	878.6	879.3	881.6	876.6	885.4	891.1	839.3	722.7	606.8	506.9
32.5°	950.8	948.0	949.4	950.8	952.5	961.6	958.2	855.9	704.8	569.9	453.0
35°	1031.1	1036.1	1037.5	1040.5	1043.9	1057.8	1018.9	859.3	677.3	520.4	384.2
37.5°	1150.7	1158.8	1158.8	1169.6	1163.2	1180.1	1073.1	851.1	635.6	451.7	306.6
40°	1301.4	1305.2	1308.9	1310.3	1306.9	1304.8	1108.7	831.2	577.0	365.3	224.3
42.5°	1455.3	1453.9	1454.3	1456.6	1447.5	1409.2	1130.7	796.3	504.2	272.8	160.9
45°	1621.0	1615.2	1613.5	1608.8	1600.6	1520.0	1143.2	747.1	408.3	191.8	126.4
47.5°	1782.2	1775.1	1764.3	1751.1	1735.5	1609.1	1141.9	683.4	313.1	137.2	111.5
50°	1947.6	1935.1	1911.7	1898.8	1872.4	1697.5	1134.1	612.6	225.3	113.5	104.4
52.5°	2136.7	2114.3	2092.6	2066.9	2023.2	1806.3	1122.2	533.0	164.3	104.0	99.6
55°	2418.6	2382.0	2346.4	2292.9	2250.5	1952.0	1102.2	447.3	129.8	100.3	96.9
57.5°	2807.2	2744.9	2699.8	2627.6	2559.9	2153.6	1080.9	369.3	115.9	99.3	95.6
60°	3244.6	3150.8	3066.8	2978.0	2900.7	2405.4	1069.7	308.3	112.8	100.3	95.9
62.5°	3519.1	3408.3	3303.3	3194.8	3083.7	2525.6	1021.2	266.3	114.2	104.7	98.6
65°	3484.5	3362.2	3248.0	3115.9	3011.2	2412.1	897.9	225.3	116.6	112.5	106.1
67°	3251.4	3132.8	3002.7	2873.3	2771.6	2196.3	758.0	189.7	119.3	121.3	114.2
67.5°	3189.1	3055.6	2924.4	2805.5	2695.4	2129.5	721.4	180.9	119.9	123.7	116.9
70°	2659.5	2553.8	2400.3	2312.2	2232.6	1726.3	538.1	140.6	122.0	134.2	129.8
72.5°	1860.9	1758.5	1678.2	1630.1	1583.7	1254.3	378.5	112.2	118.9	139.9	135.5
75°	939.9	916.5	888.4	872.8	873.5	729.2	228.0	95.6	111.8	134.2	123.0
77.5°	185.7	180.9	183.0	200.2	197.2	224.6	113.2	81.0	95.2	103.3	88.4
80°	89.8	86.7	84.0	83.4	81.7	78.3	71.2	67.4	77.3	68.1	58.6
82.5°	58.3	54.9	53.5	50.8	51.2	55.6	62.0	64.7	62.7	47.1	39.6
85°	32.9	32.5	31.9	32.5	33.9	44.4	66.4	60.7	50.5	33.2	29.8
87.5°	19.7	18.6	19.0	19.3	20.0	32.9	52.5	43.7	32.2	17.3	17.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	155°	165°	175°	180°
0°	535.0	535.0	535.0	535.0
2.5°	519.8	518.4	518.4	518.1
5°	511.3	509.3	508.9	508.9
7.5°	509.9	507.2	506.9	505.9
10°	516.0	515.0	515.4	514.3
12.5°	535.4	536.7	538.1	538.1
15°	564.8	563.8	565.5	563.8
17.5°	586.5	577.7	575.7	574.7
20°	587.2	568.9	562.8	561.8
22.5°	566.2	539.1	528.9	527.2
25°	530.6	496.4	483.5	482.2
27.5°	485.9	447.6	428.6	427.9
30°	432.0	386.6	362.5	358.8
32.5°	366.3	312.4	287.0	278.9
35°	290.4	235.1	211.4	210.8
37.5°	216.9	173.8	158.6	157.9
40°	158.9	136.5	130.8	129.8
42.5°	129.8	120.6	118.3	117.2
45°	116.2	112.5	111.1	110.1
47.5°	108.1	105.7	104.7	104.7
50°	101.6	101.0	100.3	100.3
52.5°	97.2	96.9	96.2	95.9
55°	93.5	92.2	92.5	92.2
57.5°	91.1	89.1	89.1	89.1
60°	89.8	86.1	86.1	86.4
62.5°	90.1	84.4	84.0	84.0
65°	92.8	83.4	81.3	81.7
67°	96.2	82.3	78.3	77.9
67.5°	97.2	81.7	77.3	76.9
70°	101.3	79.6	72.2	71.5
72.5°	102.0	76.6	67.1	66.4
75°	94.9	72.5	63.0	61.3
77.5°	73.9	62.3	56.9	56.9
80°	51.8	47.8	40.7	40.3
82.5°	37.9	35.9	29.8	29.1
85°	27.8	26.1	22.0	22.0
87.5°	17.3	16.6	14.2	13.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)